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ABSTRACT

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3	Methods for immunizing,	and immunogen	pharmaceutical of	compositions for	r eliciting a

- 4 heterologous immune response to HIV-1 in an animal, preferably a human, are provided,
- 5 utilizing a modified HIV-1 envelope protein or fragment or DNA encoding a modified HIV-1
- 6 envelope protein or fragment, the modified protein having a HIV-1 envelope protein V2
- 7 region deletion. A humoral response against heterologous HIV-1 strains is achieved.

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